| Index of Claims | | | | | | | | | | | | | A | Application/Control No. | | | | | | | | | | Applicant(s)/Patent und Reexamination | | | | | | | | | |
|-----------------|----------|----------|---|----------|---------------------------------|---------|--------------|--------------|-----------|---------|----|-------------|---------------|-------------------------|------------|----------|-----------|-----------|----------|----------|-----------|----------|----------|---------------------------------------|----------|------------|----------|----------|----------|----------|---------|----|----------|
| | | | | | | | | | | | | | | 10 | 10/750,667 | | | | | | | | | | | KIM ET AL. | | | | | | | |
| | | | | | | | | | | | | | | Examiner | | | | | | | | | | | Art Unit | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | Sr | oitz | er | | | | | 72 | | | | | | |
| | | | 1 | | | | 7 | | F | 1 | | | | | | | _ | | _ | | | | |) | _ | | | | | | | - | |
| | | ✓ | F | ₹ej | ect | ed | | | - | - | (1 | Throu Ca | igh r ance | lle | ner d | al) | | | N | N | on- | Ele | cted | | A | | A | ۱pp | eal | | | | |
| | | = | ۱ | Allo | owe | ed | | | - | - | | Re | estri | cte | d | | | | 1 | In | ter | fere | nce | | 0 | | O | bje | cte | d | | | |
| CI | aim | | | | | Da | - te | | | | 7 | Cli | aim | 1 | | | | ate | _ | | | _ | Гсі | aim | <u> </u> | | | | ate | | | | ٦ |
| | | S | Γ | | | | Ť | T | Т | T | 7 | | 1 | | | | Ť | | Т | \neg | | 7 | | | | | | Ť | | | T | | 1 |
| Final | Original | 10/+/105 | | | | | | | | | | Final | Original | | | | | İ | | | | | Final | Original | | | | ŀ | | | | | |
| | (1) | Ż | t | | 1 | 1 | | \pm | \pm | \pm | _ | | 51 | \vdash | | | 1 | \exists | 7 | _ | + | + | - | 101 | \vdash | \dashv | \dashv | \dashv | ┪ | + | ╁ | + | 1 |
| | 2 | i | F | \bot | $oldsymbol{oldsymbol{\square}}$ | \perp | F | Ţ | Ţ | T | 7 | | 52 | Г | | П | \exists | 7 | 1 | \Box | | | | 102 | | | \Box | \Box | \Box | | \perp | 1 | 7 |
| | 3 | ╫ | ┝ | + | ╁ | + | + | ╁ | ╁ | + | ┨ | - | 53 54 | \vdash | - | H | \dashv | ᆉ | \dashv | + | + | \dashv | | 103 104 | H | \vdash | \dashv | | + | + | + | + | ┥ |
| | 5 | | İ | L | | Ι | | | 1 | | _ | | 55 | | | | \exists | | 1 | | \exists | i i | | 105 | | | 7 | 7 | 7 | + | + | + | ┨ |
| | 6 | \perp | L | 1 | \perp | \perp | _ | \perp | \perp | 1 |] | | 56 | igspace | | П | \Box | \Box | \Box | | \Box | | | 106 | | | | | \Box | \Box | 1 | |] |
| | 8 | + | - | ╁ | ╁ | ╁ | ╁ | + | + | ┿ | - | | 57 58 | - | | \vdash | - | \dashv | \dashv | \dashv | \dashv | \dashv | | 107 108 | | | - | 4 | + | + | | + | 4 |
| | 9 | H | | +- | T | T | ╁ | ╁ | $^{+}$ | + | ┨ | | 59 | T | | \vdash | 十 | ┪ | + | + | \dashv | \dashv | | 109 | \vdash | | \dashv | \dashv | \dashv | \dashv | ┰ | + | ┪ |
| | 10 | II, | | | | T | Ţ | T | I | | 1 | | 60 | | | | \Box | | | _ | | | | 110 | | | | | | 士 | | |] |
| | 11 | Z | L | 4 | ╀ | ╀ | ╀ | ╀ | - - | + | ┨ | ļ | 61 62 | \vdash | _ | - | 4 | 4 | \perp | 4 | 4 | 4 | | 111 | | | 4 | _ | 4 | _ | 1 | _ | _ |
| | 13 | | H | ╁╌ | + | ╁ | ╁ | + | + | ╁ | ┨ | \vdash | 63 | \vdash | _ | \dashv | + | \dashv | \dashv | + | \dashv | \dashv | \vdash | 112 113 | \vdash | \dashv | - | 4 | \dashv | + | + | + | 4 |
| | 14 | | | | | İ | | 1 | \dagger | Ť | 1 | | 64 | | _ | | _ | 1 | \top | 7 | 7 | \dashv | _ | 114 | | | 7 | 7 | 7 | + | + | ╅ | 1 |
| | 15 | | | 1 | L | L | \perp | \perp | _ | 1 |] | | 65 | | | | | \Box | \Box | \Box | \Box | | | 115 | | | | _ | | \Box | 1 | |] |
| | 16 17 | \vdash | H | ╁ | ╁ | ╁ | ╁ | ╁ | + | + | + | | 66 67 | \vdash | Н | \dashv | \dashv | + | \dashv | + | + | 4 | <u> </u> | 116 117 | H | | - | _ | \dashv | + | + | - | 4 |
| | 18 | | r | 1 | 1 | | † | \dagger | + | + | 1 | | 68 | | Н | \dashv | 十 | + | \dashv | \dashv | - | \dashv | - | 118 | Н | \dashv | \dashv | \dashv | | + | + | +- | ┥ |
| | 19 | | | | | | L | I | \perp | I |] | | 69 | | | | コ | | | | | コ | | 119 | | | | | | | 土 | 1 | _ |
| | 20 21 | Н | L | ╂ | ╀ | ╁ | - | ╀ | - | ╀ | - | | 70 71 | - | \dashv | _ | + | 4 | + | 4 | \dashv | 4 | | 120 | Ш | 4 | | 4 | _ | - | \perp | _ | 4 |
| - | 22 | - | - | ╁ | + | ╁╌ | ╁ | ╁ | + | + | ┨ | } | 72 | \vdash | | \dashv | + | ᆉ | \dashv | + | \dashv | \dashv | | 121 122 | \vdash | - | \dashv | \dashv | \dashv | - - | ╁ | ╁┈ | \dashv |
| | 23 | | | | | | <u> </u> | | T | | | | 73 | | | | \top | 1 | + | \dashv | \dashv | ヿ | | 123 | H | 7 | \dashv | \dashv | 1 | + | + | + | 1 |
| | 24 | | | ╄ | \perp | | _ | | \bot | Ļ |] | | 74 | | | | | \Box | | \Box | \Box | | | 124 | | | | | | | | |] |
| | 25 26 | Н | _ | ╁ | ╁ | ╁ | ╁ | ╀ | + | ┿ | 4 | | 75 76 | Н | \dashv | - | | \dashv | + | \dashv | _ | 4 | - | 125 126 | \sqcup | \dashv | _ | 4 | 4 | + | _ | + | 4 |
| | 27 | | | ╁ | ╁ | ╁ | ${\dagger}$ | ╁ | + | ╁ | ┪ | | 77 | Н | \dashv | -+ | + | + | \dashv | + | + | ┪ | - | 127 | H | \dashv | + | \dashv | \dashv | \dashv | + | ╁ | - |
| | 28 | | | | | | | I | | |] | | 78 | | | | | 1 | | | 7 | | | 128 | | ┪ | 7 | \dashv | _ | \top | ╁ | ╅ | 1 |
| | 29 | | _ | ╀- | _ | 4 | ↓_ | 1 | \bot | ┸ | 1 | <u> </u> | 79 | | | | \Box | \perp | \Box | | \Box | \Box | | 129 | | | | | | \perp | | |] |
| | 30 31 | -1 | _ | ╀╌ | \vdash | ╀ | ╀ | ╁ | + | ╀ | - | | 80 81 | \vdash | | - | \dashv | - | -+ | 4 | | 4 | L | 130 | \sqcup | _ | _ | | | 4 | _ | 4 | ↓ |
| | 32 | \vdash | - | ╁╴ | ╁ | 1 | ╁╌ | 十 | + | + | ┨ | <u> </u> | 82 | \vdash | | \dashv | -+ | ╅ | + | + | - | - | \vdash | 131 132 | \vdash | \dashv | - | \dashv | + | - | + | + | ┨ |
| | 33 | | | | | | T | | † | T | 1 | | 83 | | | 十 | + | 7 | \top | \dashv | 十 | 1 | | 133 | H | \dashv | \dashv | \dashv | \dashv | + | + | + | 1 |
| | 34 | | | \perp | Ļ | | \Box | I | Ţ | \perp |] | | 84 | | | | \Box | | | | | | | 134 | | | | | | | | | 1 |
| | 35 36 | - | | + | ╀ | 1 | 1 | + | + | + | - | <u> </u> | 85 | | | _ | _ | 4 | _ | \perp | _ | _ | | 135 | \Box | J | \prod | \bot | \perp | \bot | 工 | Ţ | 1 |
| | 37 | \vdash | _ | ╁╌ | + | ╁ | \vdash | ╁╴ | + | + | + | | 86 87 | \vdash | \dashv | \dashv | + | + | + | + | + | \dashv | | 136 137 | | - | - | + | + | + | + | + | 4 |
| | 38 | | Τ | | T | T | T | † | \dagger | 十 | 1 | | 88 | \vdash | + | + | + | + | + | \dashv | + | \dashv | | 138 | \vdash | \dashv | \dashv | \dashv | + | + | + | + | + |
| | 39 | | _ | Γ | | | | | Ţ | |] | | 89 | \square | | | | | | | 丁 | | | 139 | | | | \top | _ | ╈ | | | 1 |
| _ | 40 41 | \dashv | | \vdash | ╀ | + | \vdash | + | + | \perp | - | \vdash | 90 | \sqcup | _ | \perp | 4 | _[| 1 | \perp | \perp | _ | | 140 | | \supset | \Box | \Box | \top | \perp | Ţ | |] |
| | 41 | \dashv | | + | ╁ | + | + | + | + | + | + | | 91 92 | $\vdash \vdash$ | \dashv | -+ | + | + | + | + | + | \dashv | \vdash | 141 142 | \dashv | \dashv | - | + | + | + | + | ╁┈ | 4 |
| | 43 | | | 1 | T | t | \top | T | T | + | 1 | \vdash | 93 | ╁┯┪ | ᅥ | \dashv | + | ╁ | + | + | + | \dashv | \vdash | 143 | \vdash | \dashv | + | + | + | + | + | + | 1 |
| | 44 | | | | | | L | Ι |] | I^- |] | | 94 | П | | | 丁 | _ | \dashv | | 1 | ┨ | | 144 | | \dashv | \dashv | - | \dashv | + | + | +- | 1 |

96 97

99

 149 150